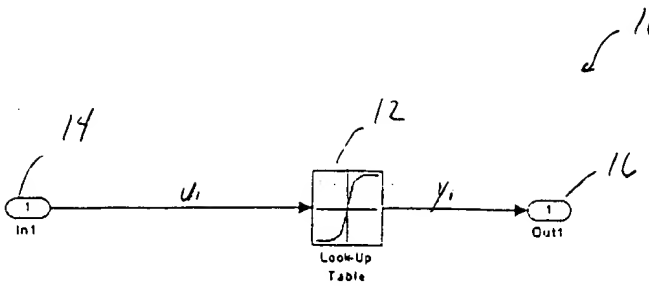


FIG. 1A (PRIOR ART)

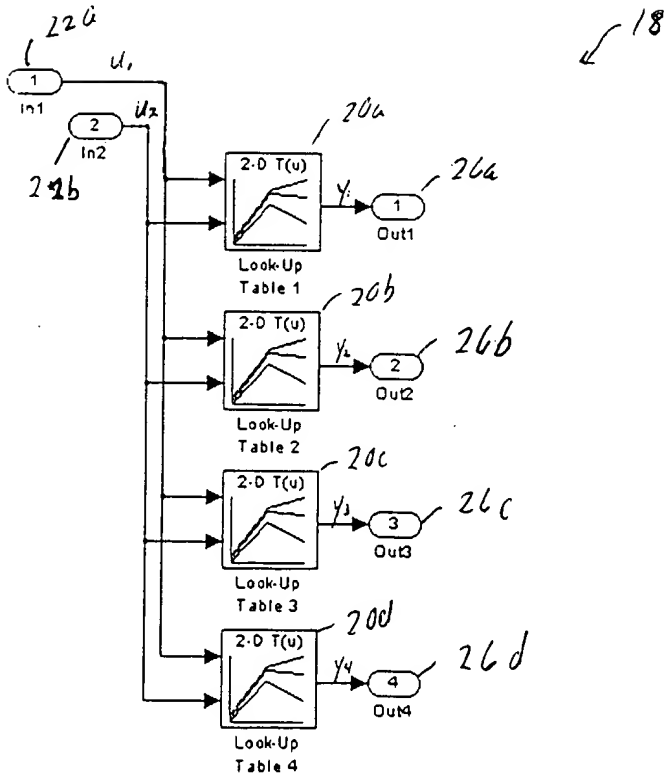


FIG. 1B (PRIOR ART)

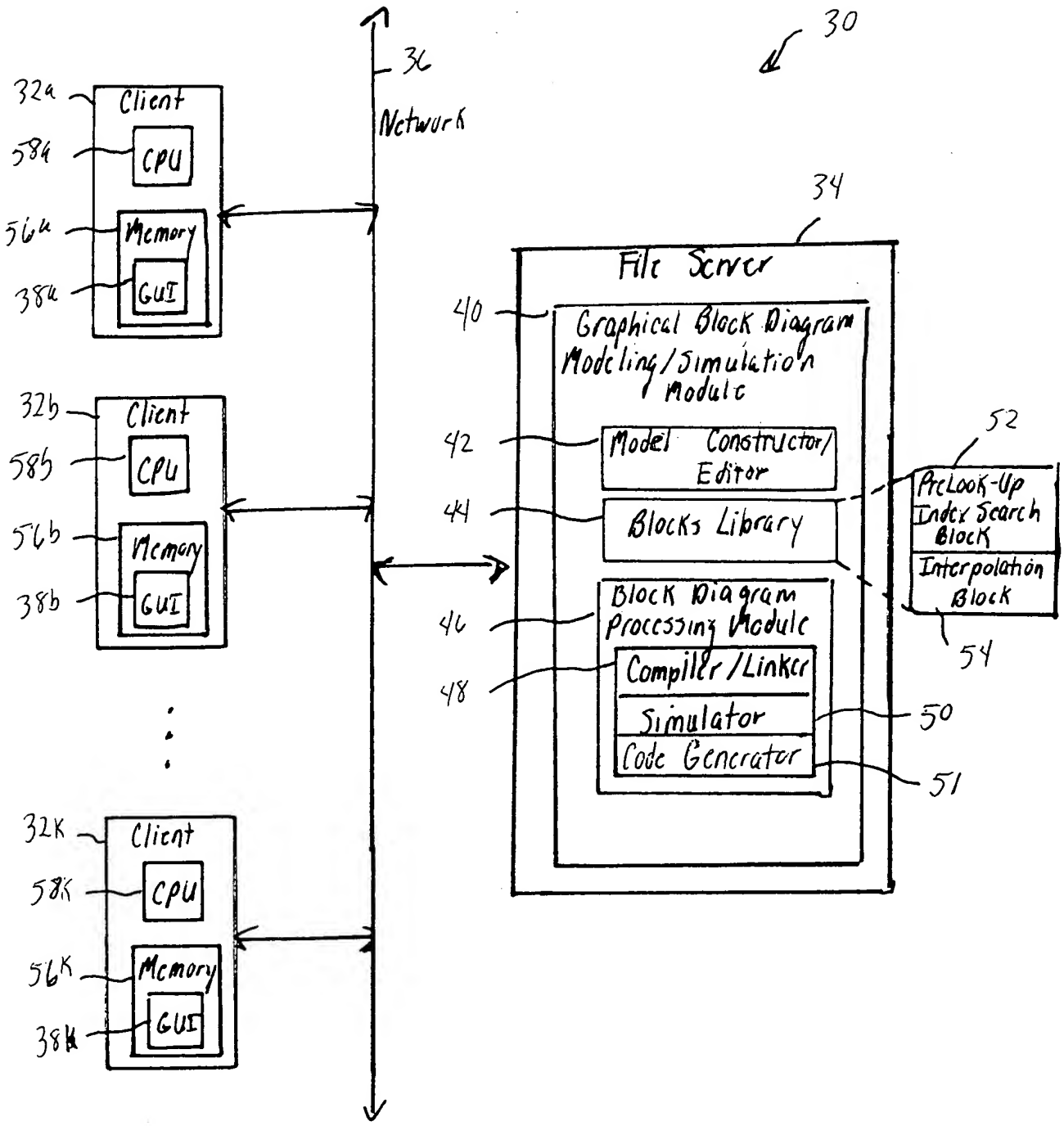

30
36
Network
32a
Client
58a
CPU
56a
Memory
38a
GUI
32b
Client
58b
CPU
56b
Memory
38b
GUI
32K
Client
58K
CPU
56K
Memory
38K
GUI
34
File Server
40
Graphical Block Diagram Modeling/Simulation Module
42
Model Constructor/ Editor
44
Blocks Library
46
Block Diagram Processing Module
48
Compiler/Linker
Simulator
Code Generator
50
51
52
PreLook-Up Index Search Block
Interpolation Block
54

FIG. 2

SCANNED, # 12

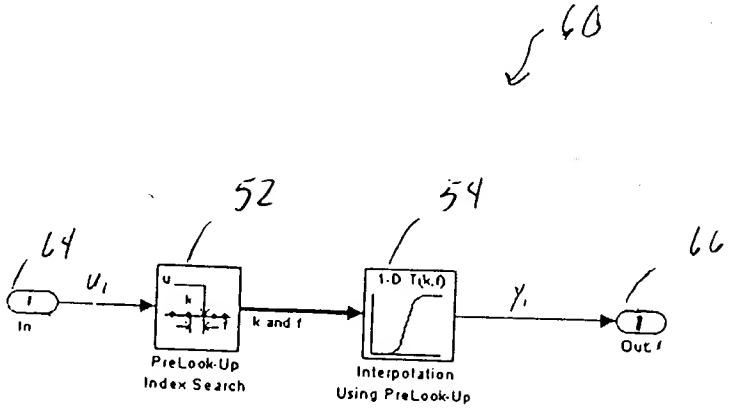


FIG. 3A

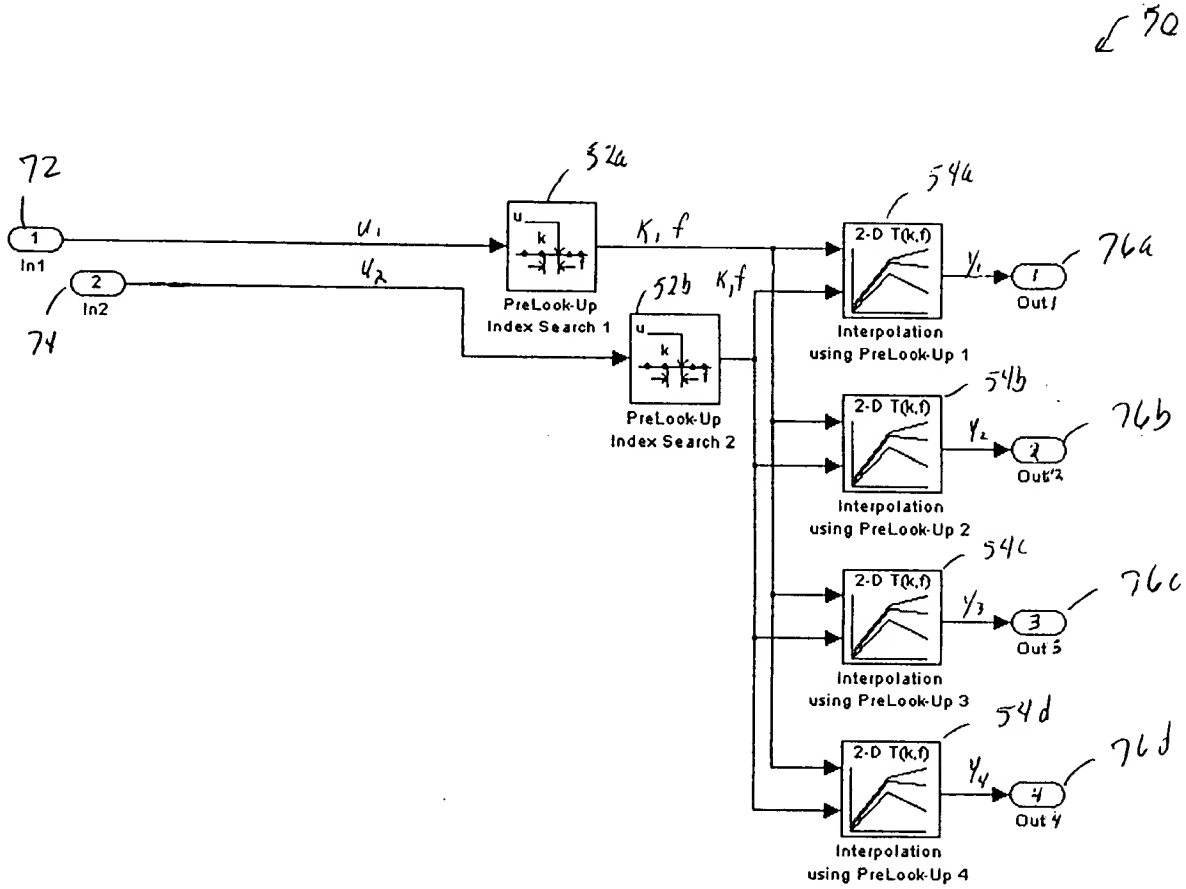

50
72
52a
54a
76a
u1
u2
K, f
In1
In2
74
PreLook-Up
Index Search 1
52b
K,f
PreLook-Up
Index Search 2
2-D T(k,f)
Interpolation
using PreLook-Up 1
Out1
54b
76b
Interpolation
using PreLook-Up 2
Out2
54c
76c
Interpolation
using PreLook-Up 3
Out3
54d
76d
Interpolation
using PreLook-Up 4
Out4

FIG. 3B

T00270 "TE660660

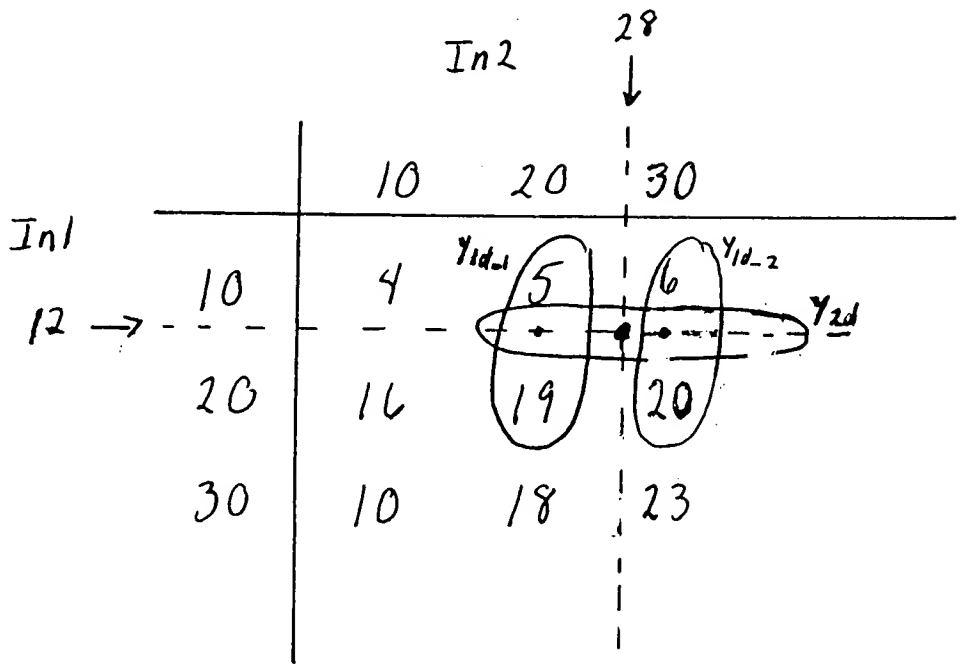


FIG. 4

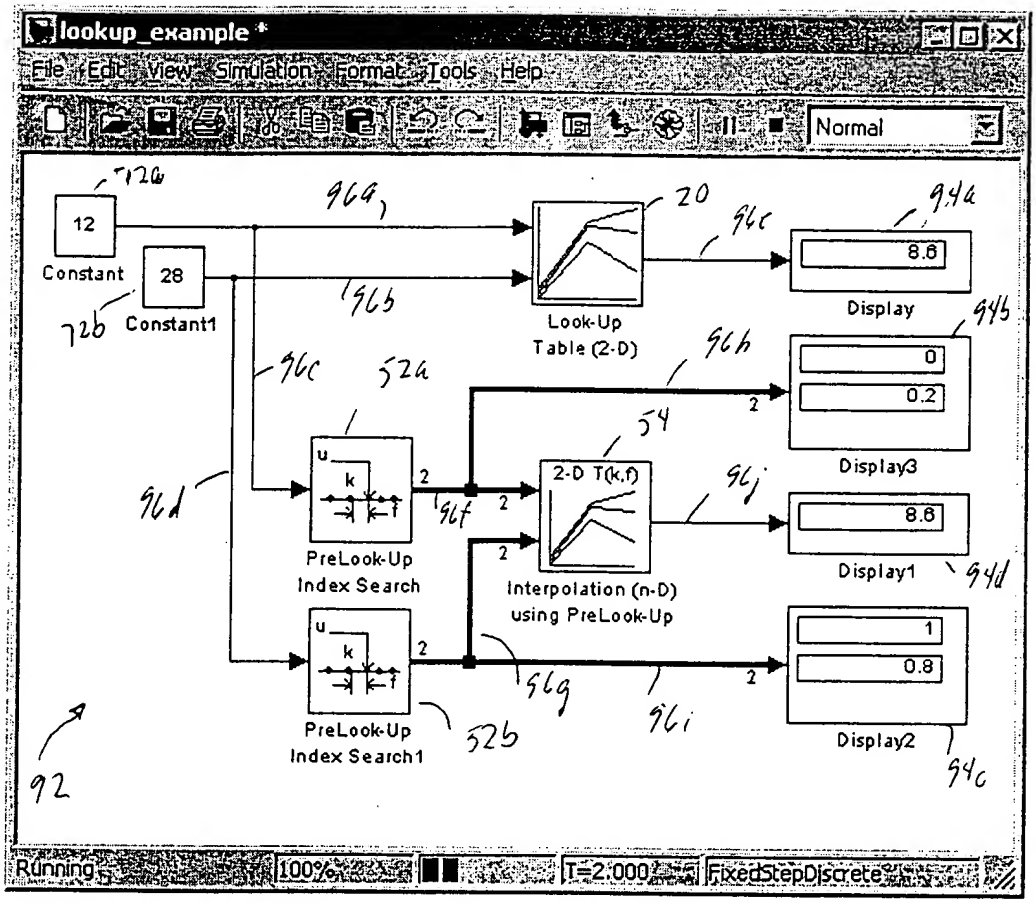

lookup_example *
File Edit View Simulation Format Tools Help
Normal
12
Constant
28
Constant1
Look-Up
Table (2-D)
8.6
Display
0
0.2
Display3
u
k
f
PreLook-Up
Index Search
2-D T(k,f)
Interpolation (n-D)
using PreLook-Up
8.6
Display1
PreLook-Up
Index Search1
1
0.8
Display2
Running
100%
T=2.000
FixedStepDiscrete

FIG. 5

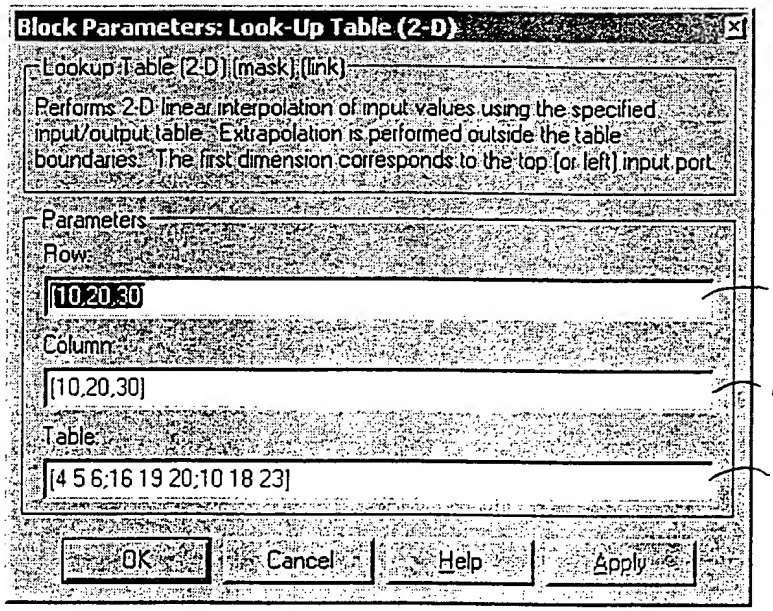

100
Block Parameters: Look-Up Table (2-D)
Lookup Table (2-D) (mask) (link)
Performs 2-D linear interpolation of input values using the specified input/output table. Extrapolation is performed outside the table boundaries. The first dimension corresponds to the top (or left) input port.
Parameters
Row:
[10,20,30]
102
Column:
[10,20,30]
104
Table:
[4 5 6;16 19 20;10 18 23]
106
OK
Cancel
Help
Apply

FIG. 6

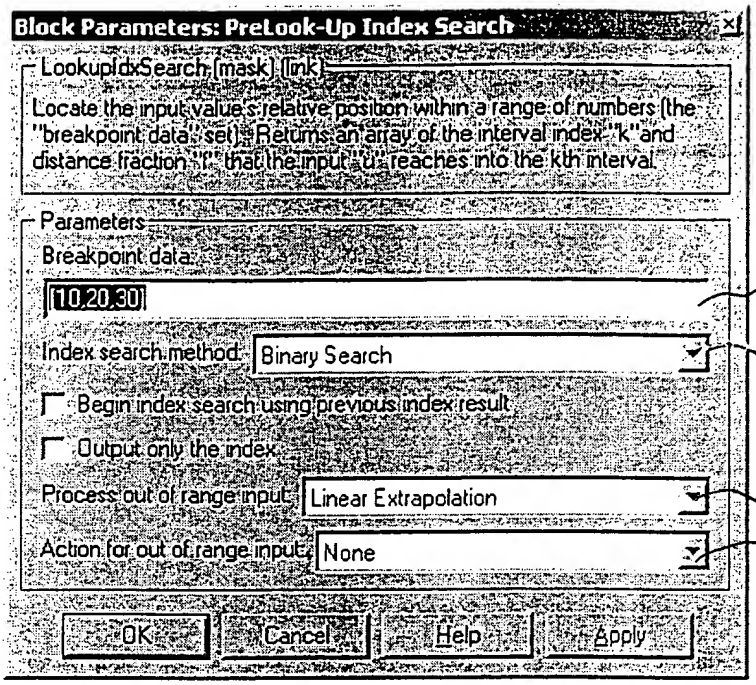


FIG. 7A

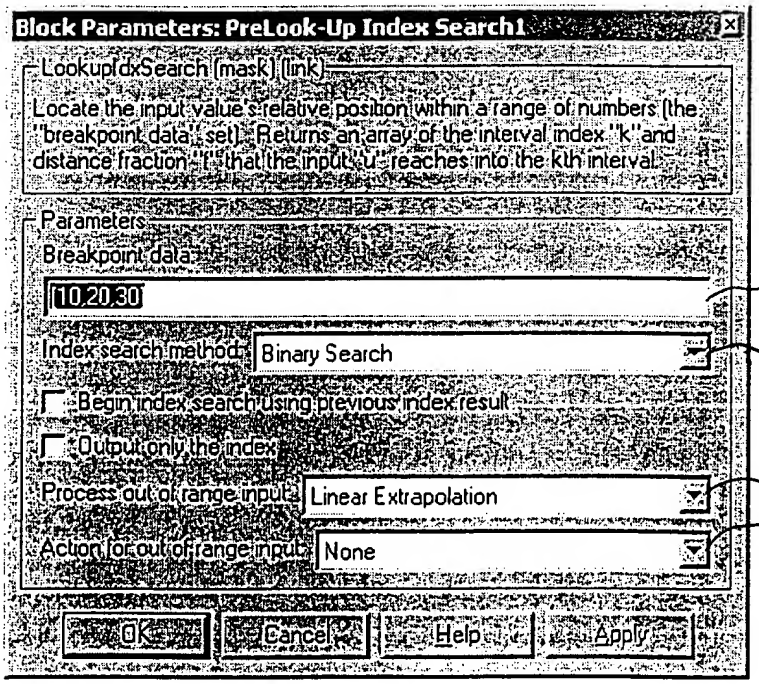
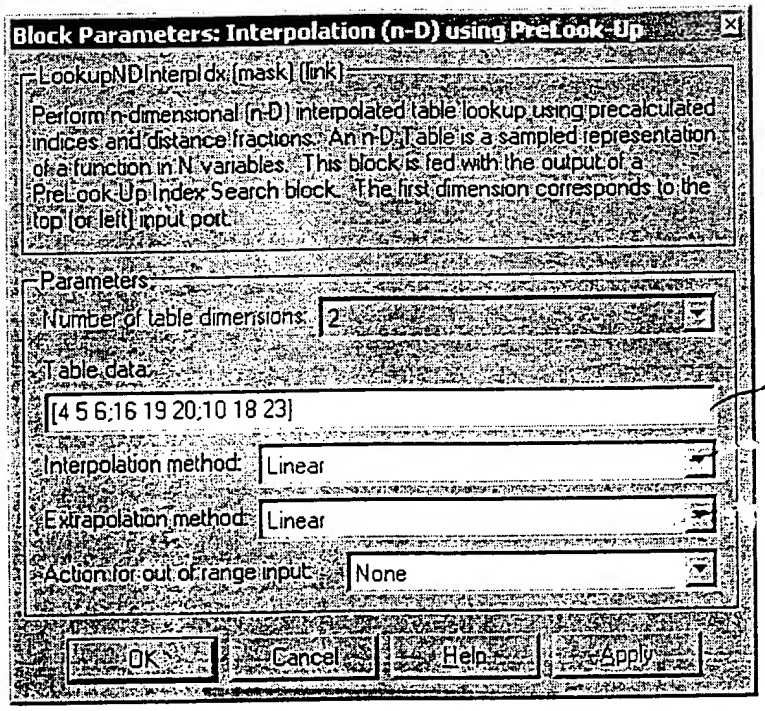


FIG. 7B

1003270.1626050

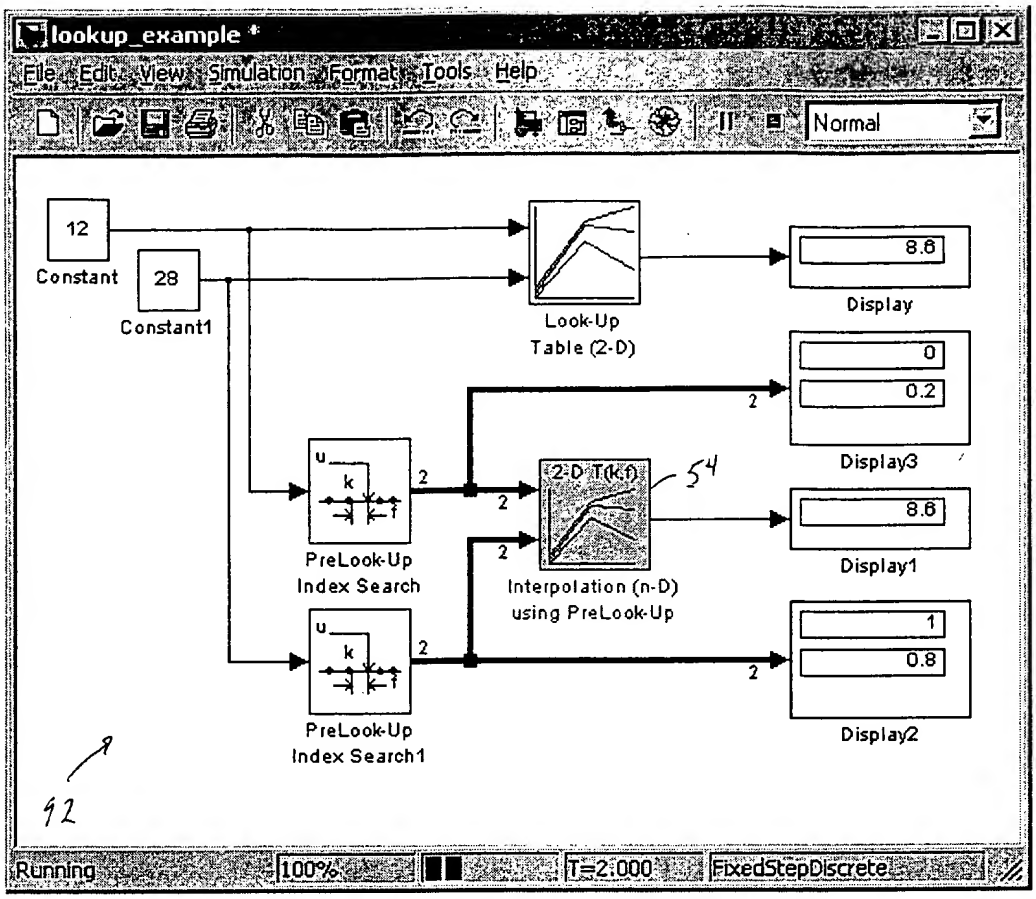
20030-1650

116



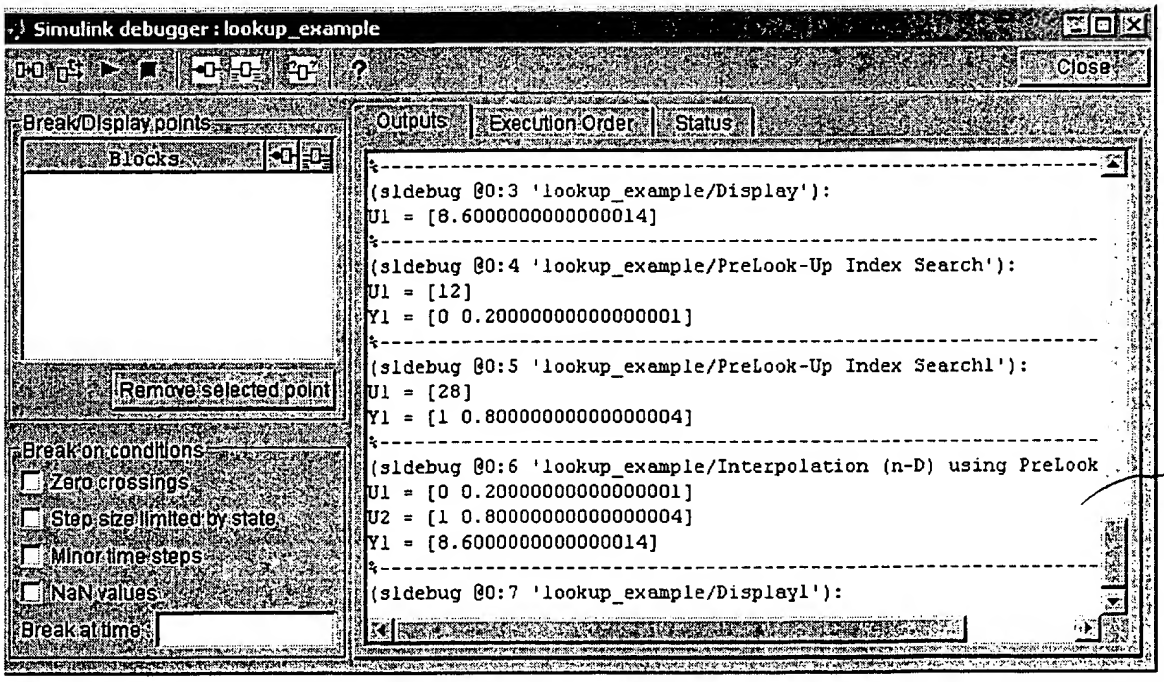
118

FIG. 8



90

FIG. 9



120

122

FIG. 10

T0052-T5656060